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Excerpt: Abstract. The collapse of a single cavitation bubble near a gelatin surface, and the interaction of an air bubble attached to a gelatin surface with a shock wave, were investigated. These events permitted the study of the behavior of in vivo cavitation ...

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Publication: Applied Physics A: Materials Science & Processing

Authors: G. Paltauf, H. Schmidt-Kloiber

Publisher: Springer-Verlag Heidelberg

Recency: Volume 62, Number 4

Pages: 303 - 311

Excerpt: Abstract. Photomechanical fracture induced by thermoelastic stress waves is an important mechanism of tissue ablation by short laser pulses. In this study, we present experimental investigations of the fracture process in ductile, water-containing materials and compare the results with a theoretical ...

-  ☐ 3. Photoacoustic cavitation in spherical and cylindrical absorbers

Publication: Applied Physics A: Materials Science & Processing


Authors: G. Paltauf, H. Schmidt-Kloiber

Publisher: Springer-Verlag Heidelberg

Recency: Volume 68, Number 5

Pages: 525 - 531

Excerpt: Abstract. Photomechanical damage in absorbing regions or particles surrounded by a non-absorbing medium is investigated experimentally and theoretically. The damage mechanism is based on the generation of thermoelastic pressure by absorption of pulsed laser radiation under conditions of stress confinement. ...

-  ☐ 4. Energy balance of optical breakdown in water at nanosecond to femtosecond time scales

Publication: Applied Physics B: Lasers and Optics

Authors: A. Vogel, J. Noack, K. Nahen, *et al.*

Publisher: Springer-Verlag Heidelberg

Recency: Volume 68, Number 2

Pages: 271 - 280

Excerpt: During optical breakdown, the energy delivered to the sample is either transmitted, reflected, scattered, or absorbed. Pathways for the division of the absorbed energy are the evaporation of the focal volume, the plasma radiation, and the mechanical effects such as shock wave emission and cavitation. ...

66 ☐ 5. Laceration of the thoracic aorta from a .22 lr bullet

Publication: International Journal of Legal Medicine

Authors: B. Karger, K. Teige, B. Brinkmann

Publisher: Springer-Verlag Heidelberg

Recency: Volume 110, Number 2

Pages: 92 - 94

Excerpt: Abstract A gunshot wound (.22 long rifle) to the chest including perforation of the aorta ascendens is presented. The small wound tract in soft tissue was characteristic for this type of ammunition and did not show any special peculiarities. However, arterial injury was not restricted to two small perforations, ...

66 ☐ 6. A Robotic Approach to HIFU Based Neurosurgery

Publication: Lecture Notes in Computer Science

Authors: Brian L. Davies, Sunita Chauhan, Mike J.S. Lowe

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1496/1998

Page: 386

Excerpt: The use of robotics in surgical interventions not only has the potential for minimally invasive surgical procedures but can improve performance and result in reduced operative time and post-operative trauma/recovery. This paper describes the concept of a robotic based High Intensity Focused ...

66 ☐ 7. Mechanisms of laser ablation from molecular dynamics simulations: dependence on the initial temperature and pulse duration

Publication: Applied Physics A: Materials Science & Processing

Authors: L.V. Zhigilei, B.J. Garrison

Publisher: Springer-Verlag Heidelberg

Recency: Volume 69, Number 7

Excerpt: Abstract. The effect of the initial sample temperature and laser pulse duration on the mechanisms of molecular ejection from an irradiated molecular solid is investigated by large-scale molecular dynamics simulations. The results of simulations performed for two initial temperatures are found to be ...

66 ☐ 8. Surface properties of laser processed ductile Iron

Publication: Applied Physics A: Materials Science & Processing

Authors: S. P. Gadag, M. N. Srinivasan

Publisher: Springer-Verlag Heidelberg

Recency: Volume 63, Number 4

Pages: 409 - 414

Excerpt: Abstract. On laser melt treatment, Sliding Wear of pearlitic ductile iron reduced from severe metallic wear to oxidative mild wear by nearly two orders of magnitude at 7.5 m s^{-1} over a load range of 14-31 rkg

66 ☐ 9. Mechanisms of laser ablation from molecular dynamics simulations: dependence on the initial temperature and pulse duration

Publication: Applied Physics A: Materials Science & Processing

Authors: L.V. Zhigilei, B.J. Garrison

Publisher: Springer-Verlag Heidelberg

Recency: Volume 69, Supplement 1

Pages: S75 - S80

Excerpt: Abstract. The effect of the initial sample temperature and laser pulse duration on the mechanisms of molecular ejection from an irradiated molecular solid is investigated by large-scale molecular dynamics simulations. The results of simulations performed for two initial temperatures are found ...

10. **Shock waves: a novel method for cytoplasmic delivery of antisense oligonucleotides**

Publication: Journal of Molecular Medicine

Authors: Katharina Tschoep, Gunther Hartmann, Ralf Jox, *et al.*

Publisher: Springer-Verlag Heidelberg

Recency: Volume 79, Numbers 5-6

Pages: 306 - 313

Excerpt: Abstract. Intracytoplasmic delivery of oligonucleotides (ODN) can improve ODN-based strategies such as the antisense approach and the use of immunostimulatory CpG dinucleotide containing ODN. Shock waves are established for the treatment of nephrolithiasis and other diseases. Here we describe the use ...

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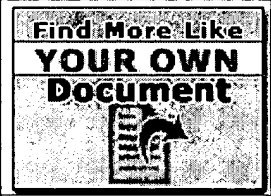
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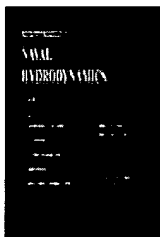
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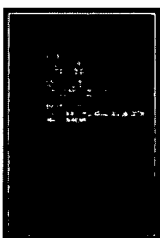


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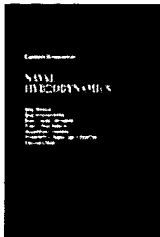


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